



**Tulsiramji Gaikwad-Patil College of Engineering and Technology**  
Wardha Road, Nagpur - 441108  
Accredited with NAAC A+ Grade  
Approved by AICTE, New Delhi, Govt. of Maharashtra  
**(An Autonomous Institution Affiliated to RTM Nagpur University)**



Department of Biotechnology

### **B. Tech Biotechnology**

#### **Course Name BBT32302: Biochemistry and Molecular Biology**

<b>BBT32302</b>	<b>Course Outcomes</b>
<b>CO1</b>	Describe the classification, structure, and function of carbohydrates, and analyze their chemical reactions and properties
<b>CO2</b>	Explain the classification and structure of amino acids and proteins, and analyze the processes of protein denaturation and renaturation
<b>CO3</b>	Understand the structure and types of DNA and RNA, and explain the functions of nucleic acids, nucleosides, nucleotides, purines, and pyrimidines
<b>CO4</b>	Analyze the processes of DNA replication, transcription, and translation in prokaryotic and eukaryotic cells, and evaluate the genetic code
<b>CO5</b>	Classify and describe the structure, properties, and biological functions of fatty acids and simple lipids, including triacylglycerol, phospholipids, and glycolipids